"EAST" SEARCH HISTORY 10/765,988

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	1	("3993651").PN.	USPAT	OR	OFF	2005/09/15 10:11
L2	1	("6627756").PN.	USPAT	OR	OFF	2005/09/15 11:31
L3	1	("4216323").PN.	USPAT	OR	OFF	2005/09/15 11:41
L4	1	("5741906").PN.	USPAT	OR	OFF	2005/09/15 11:42
L5	1	("6552194").PN.	USPAT	OR	OFF	2005/09/15 12:04
L6	1	("4017494").PN.	USPAT	OR	OFF	2005/09/15 12:05
L7	1	("3297701").PN.	USPAT	OR	OFF	2005/09/15 12:05
L8	1	("4084758").PN.	USPAT	OR	OFF	2005/09/15 12:06
L9	1	("4757143").PN.	USPAT	OR	OFF	2005/09/15 12:07
L10	1	("0446320").PN.	USPAT	OR	OFF	2005/09/15 12:08
L11	1	("4463320").PN.	USPAT	OR	OFF	2005/09/15 12:08
L12	1	("4582904").PN.	USPAT	OR	OFF	2005/09/15 12:12
L13	4	"952152"	EPO; JPO; DERWENT	OR	OFF	2005/09/15 12:13
L14	3	"2611069"	EPO; JPO; DERWENT	OR	OFF	2005/09/15 12:23
L15	86	544/352	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2005/09/15 12:24
L16	37	l15 and (alcohol or methanol or ethanol or ether) and (vapor or vapour or gaseous) and (asorbent or charcoal or carbon or (ion adj exchange))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/15 12:25
L17	37	l15 and (alcohol or methanol or ethanol or ether) and (vapor or vapour or gaseous) and (adsorbent or charcoal or carbon or (ion adj exchange))	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/15 12:32
L18	16	l17 and (activated adj carbon or charcoal or resin)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT	OR	ON	2005/09/15 12:33

- EDS -

SEARCH

10/765,988

STN SEARCH TRANSCRIPT

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 NEWS  3  JUL 20  Powerful new interactive analysis and visualization software,
                  STN AnaVist, now available
 NEWS  4  AUG 11  Derwent World Patents Index(R) web-based training during
                  August
 NEWS  5  AUG 11  STN AnaVist workshops to be held in North America
 NEWS  6  AUG 30  CA/CAplus -Increased access to 19th century research documents
 NEWS  7  AUG 30  CASREACT - Enhanced with displayable reaction conditions
 NEWS  8  SEP 09  ACD predicted properties enhanced in REGISTRY/ZREGISTRY

 NEWS EXPRESS  JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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FILE 'HOME' ENTERED AT 13:06:37 ON 15 SEP 2005

=> FILE REG
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                0.21       0.21

FILE 'REGISTRY' ENTERED AT 13:06:42 ON 15 SEP 2005
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STRUCTURE FILE UPDATES:   14 SEP 2005  HIGHEST RN 863180-19-2

DICTIONARY FILE UPDATES:  14 SEP 2005  HIGHEST RN 863180-19-2

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*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Structure search iteration limits have been increased.  See HELP SLIMITS
for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> S TEDA
L1            2 TEDA

=> D 1-2

L1   ANSWER 1 OF 2  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   847910-60-5  REGISTRY
ED   Entered STN:  05 Apr 2005
CN   TEDA-L 33E (9CI)  (CA INDEX NAME)
ENTE An amine catalyst containing 33% triethylenediamine in ethylene glycol
MF   Unspecified
CI   MAN
SR   CA
LC   STN Files:   CA, CAPLUS

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
               2 REFERENCES IN FILE CA (1907 TO DATE)
               2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1   ANSWER 2 OF 2  REGISTRY  COPYRIGHT 2005 ACS on STN
RN   280-57-9  REGISTRY
ED   Entered STN:  16 Nov 1984
CN   1,4-Diazabicyclo[2.2.2]octane (8CI, 9CI)  (CA INDEX NAME)
OTHER NAMES:
CN   1,4-Ethylenepiperazine
CN   A 33
CN   Bicyclo[2.2.2]-1,4-diazaoctane
CN   D 33LV
CN   Dabco
CN   Dabco 33LV
CN   Dabco 3LV
CN   Dabco Crystalline
CN   Dabco L 1202
CN   Dabco S 25
CN   Jeffcat TD 100
CN   L 33
CN   L 33E
CN   LC 96003
```

CN Minico L 1020
CN N,N'-endo-Ethylenepiperazine
CN Niax A 33
CN NSC 56362
CN PC CAT TD 33
CN Polycat 33LV
CN TD 100
CN TED
CN TEDA
CN Teda L 33
CN Tegamine 33
CN Tego Amine
CN Texacat TD 100
CN Texacat TD 33
CN Thancat TD 33
CN Thancat TD 33A
CN Toral SM 2
CN Toyocat L 33
CN Toyocat TEDA L 33
CN Triethylenediamine
FS 3D CONCORD
DR 23790-33-2, 101484-19-9, 150605-01-9, 88935-43-7, 203072-11-1, 309955-09-7
MF C6 H12 N2
CI COM, RPS
LC STN Files: ANABSTR, AQUIRE, BEILSTEIN*, BIOBUSINESS, BIOSIS, BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB, CEN, CHEMCATS, CHEMINFORMRX, CHEMLIST, CIN, CSCHEM, CSNB, DETHERM*, DIPPR*, EMBASE, ENCOMPLIT, ENCOMPLIT2, ENCOMPPAT, ENCOMPPAT2, GMELIN*, HODOC*, HSDB*, IFICDB, IFIPAT, IFIUDB, MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*, SPECINFO, SYNTHLINE, TOXCENTER, ULIDAT, USPAT2, USPATFULL, VTB
(*File contains numerically searchable property data)
Other Sources: DSL**, EINECS**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

5205 REFERENCES IN FILE CA (1907 TO DATE)
247 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
5221 REFERENCES IN FILE CAPLUS (1907 TO DATE)
107 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> FILE CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	8.71	8.92

FILE 'CAPLUS' ENTERED AT 13:07:13 ON 15 SEP 2005
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FILE COVERS 1907 - 15 Sep 2005 VOL 143 ISS 12
FILE LAST UPDATED: 14 Sep 2005 (20050914/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> S 280-57-9/RN
5221 280-57-9
247 280-57-9D
L2 5008 280-57-9/RN
(280-57-9 (NOTL) 280-57-9D)

=> S L2/PREP
FIELD CODES CANNOT BE CHANGED HERE
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=> S 280-57-9/PREP
5221 280-57-9
3357108 PREP/RL
L3 261 280-57-9/PREP
(280-57-9 (L) PREP/RL)

=> S L3 AND ADSORBENT
60000 ADSORBENT
44590 ADSORBENTS
77817 ADSORBENT
(ADSORBENT OR ADSORBENTS)
L4 4 L3 AND ADSORBENT

=> D 1-4

L4 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:625844 CAPLUS
DN 141:157137
TI Decolorization and color stabilization of TEDA-solutions
IN Ciprian, Juergen; Frauenkron, Matthias; Maurer, Stephan; Melder, Johann-Peter
PA BASF Aktiengesellschaft, Germany
SO Eur. Pat. Appl., 12 pp.
CODEN: EPXXDW
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1443048	A1	20040804	EP 2004-1777	20040128
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
	DE 10303696	A1	20040812	DE 2003-10303696	20030130
	US 2004186291	A1	20040923	US 2004-765988	20040129
	JP 2004231659	A2	20040819	JP 2004-24570	20040130
PRAI	DE 2003-10303696	A	20030130		

APPLICANTS

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2000:855787 CAPLUS
DN 134:10101
TI Crystalline manganese (II/III) phosphate compositions
IN Lewis, Gregory J.
PA UOP LLC, USA
SO U.S., 18 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 6156931	A	20001205	US 1999-275202	19990324
	US 6512144	B1	20030128	US 2000-728536	20001201
PRAI	US 1999-275202	A2	19990324		

RE.CNT 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1986:91513 CAPLUS
DN 104:91513
TI Zinc-aluminum-phosphorus-silicon-oxide molecular sieve compositions
IN Lok, Brent Mai Tak; Vail, Lawrence David; Flanigen, Edith Marie
PA Union Carbide Corp., USA
SO Eur. Pat. Appl., 84 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 158975	A2	19851023	EP 1985-104384	19850411
	EP 158975	A3	19860205		
	EP 158975	B1	19890118		
	R: BE, DE, FR, GB, IT, NL				
	US 4935216	A	19900619	US 1984-600170	19840413
	CA 1248079	A1	19890103	CA 1985-478437	19850404
	JP 60231414	A2	19851118	JP 1985-76916	19850412
	CN 85103257	A	19870107	CN 1985-103257	19850427
	CN 1009820	B	19901003		
	CN 1053018	A	19910717	CN 1990-107010	19850427
PRAI	US 1984-600170	A	19840413		
	CN 1985-103257	A	19850427		

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1986:7812 CAPLUS
DN 104:7812
TI Molecular sieve compositions
IN Flanigen, Edith Marie; Lok, Brent Mei Tak; Marcus, Bonita Kristoffersen; Messina, Celeste Anne; Wilson, Stephen Thomas
PA Union Carbide Corp., USA
SO Eur. Pat. Appl., 58 pp
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 158977	A2	19851023	EP 1985-104391	19850411
	EP 158977	A3	19870311		
	EP 158977	B1	19890906		
	R: BE, DE, FR, GB, IT, NL				
	CN 85101026	A	19870110	CN 1985-101026	19850401
	CN 1011959	B	19910313		
	CA 1241627	A1	19880906	CA 1985-478433	19850404
	JP 60260414	A2	19851223	JP 1985-76911	19850412
	US 4952384	A	19900828	US 1988-197407	19880520
	US 4956165	A	19900911	US 1988-196541	19880520
PRAI	US 1984-599810	A	19840413		
	US 1986-902020	B1	19860902		

=> D ABS 2-4

L4 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AB A new family of crystalline manganese phosphate compns. has been prepared These
compns. have an extended network which network can be a one-, two-, or three-dimensional network. The composition has an empirical formula of: (A3+)v(Mnb+)(Mc+)xPyOz where A is a structure directing agent such as an alkali metal, M is a metal such as Al, Fe3+ and "b" is the average manganese oxidation state and varies from greater than 2.0 to a maximum of 3.0. These compns. can be used as adsorbents and as catalysts in the oxidation of hydrocarbons.

L4 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AB A novel class of crystalline microporous mol. sieves and a method of their preparation are described. The mol. sieves have 3-dimensional microporous framework structures of ZnO2, AlO2, SiO2, and PO2 tetrahedral units and an empirical chemical composition on an anhydrous basis expressed by the formula mR:(ZnwAlxPySiz)O2 where R represents organic templating agent present in the intracryst. pore system, m the molar amount of R present per mol of (ZnwAlxPySiz)O2, and W, X,Y,Z. The mole fractions of Zn, Al, P, and Si, resp. present as tetrahedral oxides. The zeolites can be used as adsorbents or catalysts.

L4 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN
AB A novel class of crystalline microporous mol. sieves and a method of their preparation are described. The mol. sieves have 3-dimensional microporous framework structures of MO2n, AlO2, and PO2 tetrahedral oxide units and an empirical chemical composition on an anhydrous basis expressed by the formula mR:(MxAlyPz)O2, where R represents organic templating agent present in the intracryst. pore system, M is Fe and/or Ti, Co, Mg, Mn, or Zn, n is 0, -1, or -2, m the molar amount of R present per mol of (MxAlyPz)O2 and x, y, z the mole fractions of M, Al, and P, resp., present as tetrahedral oxides. The zeolites can be used as adsorbents or catalysts.

=> S L3 NOT L4
L5 257 L3 NOT L4

=> S L5 AND (CHARCOAL OR ACTIVATED CARBON)
45941 CHARCOAL
1745 CHARCOALS
46179 CHARCOAL
(CHARCOAL OR CHARCOALS)
471582 ACTIVATED
1143132 CARBON
25157 CARBONS
1152188 CARBON
(CARBON OR CARBONS)
43629 ACTIVATED CARBON
(ACTIVATED(W)CARBON)
L6 1 L5 AND (CHARCOAL OR ACTIVATED CARBON)

=> D

```
L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2004:139585  CAPLUS
DN   140:188920
TI   Gas absorber
IN   Kiyama, Yukihiro
PA   Toyobo Co., Ltd., Japan
SO   Jpn. Kokai Tokkyo Koho, 6 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     --------------      ----   --------    -------------------    --------
PI   JP 2004053320        A2    20040219    JP 2002-208650         20020717
PRAI JP 2002-208650             20020717


=> D ABS

L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
AB   The invention relates to a gas absorber, suited for use in removing
     radioactive iodine, especially methyliodate, from the waste gas generated at a
     nuclear power plant, comprising an amine-affixeactivated
     carbon fiber sheet that is laminated with a protective sheet on
     one side, wherein theactivated carbon fiber comprises
     the 3-30 nm size pores having the volum≤0.15 cc/g and≤3 nm
     size pores having the volume≥0.50 cc/g.


=> S L5 AND (ION EXCHANGE RESIN)
       1111009 ION
        697314 IONS
       1476255 ION
                 (ION OR IONS)
        539511 EXCHANGE
         16231 EXCHANGES
        547198 EXCHANGE
                 (EXCHANGE OR EXCHANGES)
        574567 RESIN
        385553 RESINS
        707111 RESIN
                 (RESIN OR RESINS)
         26164 ION EXCHANGE RESIN
                 (ION(W)EXCHANGE(W)RESIN)
L7           0 L5 AND (ION EXCHANGE RESIN)

=> S L5 AND MONOHYDRIC ALCOHOL
          5260 MONOHYDRIC
        228272 ALCOHOL
        156939 ALCOHOLS
        356312 ALCOHOL
                 (ALCOHOL OR ALCOHOLS)
        558494 ALC
        185569 ALCS
        653225 ALC
                 (ALC OR ALCS)
        781896 ALCOHOL
                 (ALCOHOL OR ALC)
          3352 MONOHYDRIC ALCOHOL
                 (MONOHYDRIC(W)ALCOHOL)
L8           0 L5 AND MONOHYDRIC ALCOHOL

=> S L5 AND (METHANOL OR ETHANOL OR PROPANOL OR BUTANOL)
        183093 METHANOL
           678 METHANOLS
        183449 METHANOL
                 (METHANOL OR METHANOLS)
        233239 ETHANOL
          1106 ETHANOLS
        233779 ETHANOL
                 (ETHANOL OR ETHANOLS)
         70837 PROPANOL
          1593 PROPANOLS
         71511 PROPANOL
                 (PROPANOL OR PROPANOLS)
         58265 BUTANOL
           923 BUTANOLS
         58605 BUTANOL
                 (BUTANOL OR BUTANOLS)
L9          21 L5 AND (METHANOL OR ETHANOL OR PROPANOL OR BUTANOL)

=> S L9 AND (VAPOR OR VAPOUR OR GASEOUS)
        491868 VAPOR
         69992 VAPORS
        533288 VAPOR
                 (VAPOR OR VAPORS)
          2084 VAPOUR
           175 VAPOURS
          2250 VAPOUR
                 (VAPOUR OR VAPOURS)
        163165 GASEOUS
L10          0 L9 AND (VAPOR OR VAPOUR OR GASEOUS)

=> S L9 AND QUENCH
         18301 QUENCH
          2524 QUENCHES
         20418 QUENCH
                 (QUENCH OR QUENCHES)
L11          0 L9 AND QUENCH

=> D L9 1-21

L9   ANSWER 1 OF 21  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2005:5471  CAPLUS
DN   142:392437
TI   Process for the preparation of triethylenediamine from by-product of
     piperazine
IN   Chen, Ligong; Bai, Guoyi; Li, Yang; Song, Jian; Wang, Donghua
PA   Tianing University, Peop. Rep. China
SO   Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.
     CODEN: CNXXEV
DT   Patent
LA   Chinese
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
     --------------      ----   --------    -------------------    --------
PI   CN 1478780           A     20040303    CN 2002-129060         20020830
PRAI CN 2002-129060             20020830
OS   CASREACT 142:392437

L9   ANSWER 2 OF 21  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2004:414961  CAPLUS
DN   141:156813
TI   Continuous Chemoselective Methylation of Functionalized Amines and Diols
     with SupercriticalMethanol over Solid Acid and Acid-Base
     Bifunctional Catalysts
AU   Oku, Tomoharu; Arita, Yoshitaka; Tsuneki, Hideaki; Ikariya, Takao
```

CS Graduate School of Science and Engineering and Frontier Collaborative Research Center Tokyo Institute of Technology and Joint Research Center for Supercritical Fluids, Japan Chemical Innovation Institute, Tokyo, 152-8552, Japan
SO Journal of the American Chemical Society (2004), 126(23), 7368-7377 CODEN: JACSAT; ISSN: 0002-7863
PB American Chemical Society
DT Journal
LA English
OS CASREACT 141:156813
RE.CNT 74 THERE ARE 74 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 3 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2004:60183 CAPLUS
DN 140:128163
TI Substantially spherical supramolecular assemblies based on Platonic and Archimedian solids, their preparation from calixarenes and other multifunctional compounds, and their uses
IN Atwood, Jerry L.; Macgillivray, Leonard R.
PA USA
SO U.S. Pat. Appl. Publ., 23 pp., Cont. of U.S. Ser. No. 319,136, abandoned. CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004014963	A1	20040122	US 2003-408605	20030407
PRAI US 1999-319136	B1	19991109		

OS MARPAT 140:128163

L9 ANSWER 4 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2003:221692 CAPLUS
DN 138:239702
TI Production of solutions of highly purified triethylenediamine
IN Lang, Ortmund; Rumpf, Bernd; Frauenkron, Matthias; Manderbach, Thomas; Stein, Bernd
PA BASF Aktiengesellschaft, Germany
SO PCT Int. Appl., 23 pp. CODEN: PIXXD2
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2003022851	A1	20030320	WO 2002-EP10197	20020911
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
DE 10145117	A1	20030403	DE 2001-10145117	20010913
EP 1427731	A1	20040616	EP 2002-777064	20020911
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, SK				
CN 1553914	A	20041208	CN 2002-817896	20020911
JP 2005507879	T2	20050324	JP 2003-526925	20020911
US 2004220405	A1	20041104	US 2004-488978	20040309
PRAI DE 2001-10145117	A	20010913		
WO 2002-EP10197	W	20020911		

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 5 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:865553 CAPLUS
DN 137:354699
TI Extractive method for the recovery of high-purity triethylenediamine from mother liquor
IN Lang, Ortmund; Rumpf, Bernd; Frauenkron, Matthias; Funhoff, Dirk; Manderbach, Thomas; Stein, Bernd
PA BASF AG, Germany
SO Ger. Offen., 6 pp. CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 10122502	A1	20021114	DE 2001-10122502	20010510
US 2003004349	A1	20030102	US 2002-138337	20020506
EP 1258485	A1	20021120	EP 2002-10129	20020510
EP 1258485	B1	20050622		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
CN 1385430	A	20021218	CN 2002-117652	20020510
JP 2002363181	A2	20021218	JP 2002-136221	20020510
AT 298340	E	20050715	AT 2002-10129	20020510
PRAI DE 2001-10122502	A	20010510		

L9 ANSWER 6 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:756475 CAPLUS
DN 138:187378
TI Enhanced product selectivity in continuous N-methylation of amino alcohols over solid acid-base catalysts with supercriticamethanol
AU Oku, Tomoharu; Ikariya, Takao
CS Graduate School of Science and Engineering, Tokyo Institute of Technology, Tokyo, 152-8552, Japan
SO Angewandte Chemie, International Edition (2002), 41(18), 3476-3479 CODEN: ACIEF5; ISSN: 1433-7851
PB Wiley-VCH Verlag GmbH & Co. KGaA
DT Journal
LA English
OS CASREACT 138:187378
RE.CNT 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 7 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 2002:609960 CAPLUS
DN 137:155527
TI Acid-blocked amine catalysts for production of polyurethane foams with desired balance of gelling and blowing effects
IN Wendel, Stephan Herman; Fard-Aghaie, Reza
PA Air Products and Chemicals, Inc., USA
SO U.S., 6 pp. CODEN: USXXAM
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 6432864	B1	20020813	US 2001-832502	20010411

	BR 2002001089	A	20030527	BR 2002-1089	20020405
	EP 1249461	A2	20021016	EP 2002-7930	20020409
	EP 1249461	A3	20030226		
	EP 1249461	B1	20041006		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	AT 278725	E	20041015	AT 2002-7930	20020409
	PT 1249461	T	20050131	PT 2002-7930	20020409
	ES 2225678	T3	20050316	ES 2002-2007930	20020409
	JP 2002371120	A2	20021226	JP 2002-107721	20020410
	CN 1380347	A	20021120	CN 2002-105538	20020411
	US 2003032553	A1	20030213	US 2002-174383	20020618
	US 6525107	B2	20030225		
PRAI	US 2001-832502	A	20010411		

OS MARPAT 137:155527
RE.CNT 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L9 ANSWER 8 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:1006738 CAPLUS
DN 124:89434
TI Method of recycling unsaturated polyester resin waste
IN Kubota, Shizuo; Ito, Osamu; Miyamoto, Hiroyuki
PA Miyaso Chemical Co., Japan
SO U.S., 5 pp.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 5468780	A	19951121	US 1995-398689	19950306
	US 5620665	A	19970415	US 1995-492147	19950619
PRAI	JP 1994-138762	A	19940621		
	JP 1994-316285	A	19941220		
	US 1995-398689	A2	19950306		
	JP 1995-116111	A	19950515		

L9 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1994:216629 CAPLUS
DN 120:216629
TI Reactions of aliphatic.alpha.-.omega.-diamines in H+-pentasils
AU Reichle, Walter T.
CS Spec. Chem. Div., Union Carbide Chem. and Plast. Co., Bound Brook, NJ, 08805, USA
SO Journal of Catalysis (1993), 144(2), 556-68
CODEN: JCTLA5; ISSN: 0021-9517
DT Journal
LA English
OS CASREACT 120:216629

L9 ANSWER 10 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1992:551015 CAPLUS
DN 117:151015
TI Metal oxide-catalyzed decarboxylation reaction of organic carbonates
IN King, Stephen Wayne; Olson, Kurt Damar; Ream, Bernard Claude
PA Union Carbide Chemicals and Plastics Co., Inc., USA
SO Eur. Pat. Appl., 33 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 478075	A2	19920401	EP 1991-202425	19910919
	EP 478075	A3	19921119		
	EP 478075	B1	19981111		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, NL, SE				
	US 5164497	A	19921117	US 1990-585556	19900920
	CA 2051484	AA	19920321	CA 1991-2051484	19910916
	CA 2051484	C	19970304		
	AU 9184643	A1	19920402	AU 1991-84643	19910919
	JP 04279540	A2	19921005	JP 1991-266992	19910919
	JP 2889975	B2	19990510		
	AT 173242	E	19981115	AT 1991-202425	19910919
	ES 2123504	T3	19990116	ES 1991-202425	19910919
	KR 180242	B1	19990515	KR 1991-16367	19910919
PRAI	US 1990-585556	A	19900920		

L9 ANSWER 11 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1990:58737 CAPLUS
DN 112:58737
TI Process and catalysts for the manufacture of amines
IN Olson, Kurt Damar; Kaiser, Steven William; Reichle, Walter Thoams; Doumaux, Arthur Roy, Jr.; Schreck, David James; McCain, James Herndon
PA Union Carbide Corp., USA
SO PCT Int. Appl., 259 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 8905810	A1	19890629	WO 1988-US4454	19881216
	W: JP				
	RW: BE, DE, FR, GB, IT, NL, SE				
	US 4973709	A	19901127	US 1987-134815	19871218
	EP 345330	A1	19891213	EP 1989-900779	19881216
	R: BE, DE, FR, GB, IT, NL, SE				
	JP 02502541	T2	19900816	JP 1989-500651	19881216
	JP 03127764	A2	19910530	JP 1989-262300	19891009
PRAI	US 1987-134815	A	19871218		
	US 1988-282371	A	19881213		
	WO 1988-US4454	W	19881216		

L9 ANSWER 12 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1990:23075 CAPLUS
DN 112:23075
TI Experiments on zeolite formation from non-aqueous media
AU Pernklau, Ernest
CS Dr. C. Otto Feuerfest G.m.b.H., Bochum, 4630/5, Fed. Rep. Ger.
SO Neues Jahrbuch fuer Mineralogie, Monatshefte (1989), (9), 385-9
CODEN: NJMMAW; ISSN: 0028-3649
DT Journal
LA English

L9 ANSWER 13 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1989:515134 CAPLUS
DN 111:115134
TI Synthesis and pharmacological study of 4-azaanalog of phencarol
AU Yakhontov, L. N.; Kutina, N. N.; Shishkin, G. V.; Zhikhareva, G. P.; Vysochin, V. I.; Vorob'eva, V. Ya.; Kaminka, M. E.; Shevchenko, I. L.; Mashkovskii, M. D.
CS VNIKhFI im. Ordzhonikidze, Moscow, USSR
SO Khimiko-Farmatsevticheskii Zhurnal (1989), 23(1), 30-5
CODEN: KHFZAN; ISSN: 0023-1134
DT Journal
LA Russian

OS CASREACT 111:115134

L9 ANSWER 14 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1989:241529 CAPLUS
DN 110:241529
TI A hydrated potassium layer silicate and its crystalline silicic acid
AU Beneke, K.; Lagaly, G.
CS Inst. Anorg. Chem., Univ. Kiel, Kiel, D-2300, Fed. Rep. Ger.
SO American Mineralogist (1989), 74(1-2), 224-9
CODEN: AMMIAY; ISSN: 0003-004X
DT Journal
LA English

L9 ANSWER 15 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1989:8313 CAPLUS
DN 110:8313
TI A new access to carbon-phosphorus double bonds: the phospha-Wittig reaction
AU Marinetti, Angela; Mathey, Francois
CS Lab. Chim. Phosphore Met. Transition, Ec. Polytech., Palaiseau, F-91128, Fr.
SO Angewandte Chemie (1988), 100(10), 1435-7
CODEN: ANCEAD; ISSN: 0044-8249
DT Journal
LA German
OS CASREACT 110:8313

L9 ANSWER 16 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1988:454268 CAPLUS
DN 109:54268
TI Selective catalytic syntheses of mixed alkyl amines
AU Labadie, J. W.; Dixon, D. D.
CS Corp. Sci. Cent., Air Prod. Chem., Inc., Allentown, PA, 18105, USA
SO Journal of Molecular Catalysis (1987), 42(3), 367-78
CODEN: JMCADS; ISSN: 0304-5102
DT Journal
LA English
OS CASREACT 109:54268

GET ABSTRACT →

L9 ANSWER 17 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1987:469497 CAPLUS
DN 107:69497
TI Layered chlorotin arsenate and chlorotin phosphate
AU Beneke, K.; Lagaly, G.
CS Inst. Anorg. Chem., Univ. Kiel, Kiel, D-2300, Fed. Rep. Ger.
SO Inorganic Chemistry (1987), 26(15), 2537-42
CODEN: INOCAJ; ISSN: 0020-1669
DT Journal
LA English

L9 ANSWER 18 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1986:625759 CAPLUS
DN 105:225759
TI Amine production via condensation reactions using rare earth metal hydrogen phosphates as catalysts
IN Wells, James E.; Eskinazi, Victoria
PA Air Products and Chemicals, Inc., USA
SO U.S., 9 pp. Cont.-in-part of U.S. 4,521,600.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4582904	A	19860415	US 1984-568860	19840106
	US 4501889	A	19850226	US 1982-381233	19820524
	US 4521600	A	19850604	US 1982-381232	19820524
	CA 1198428	A1	19851224	CA 1982-405618	19820621
	US 4446320	A	19840501	US 1982-451295	19821220
	CA 1198429	A2	19851224	CA 1983-444540	19831230
PRAI	US 1982-381232	A2	19820524		
	US 1982-381233	A2	19820524		
	US 1982-451295	A2	19821220		
	US 1982-451305	A2	19821220		
	CA 1982-405618	A3	19820621		

OS CASREACT 105:225759

L9 ANSWER 19 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1985:80022 CAPLUS
DN 102:80022
TI Organotin catalysis in urethane systems
AU Wongkamolsesh, K.; Kresta, Jiri E.
CS Polym. Inst., Univ. Detroit, Detroit, MI, 48221, USA
SO ACS Symposium Series (1985), 270(React. Injection Molding), 111-21
CODEN: ACSMC8; ISSN: 0097-6156
DT Journal
LA English

L9 ANSWER 20 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1984:571271 CAPLUS
DN 101:171271
TI Catalysis of condensation reactions
IN Wells, James Edward; Eskinazi, Victoria
PA Air Products and Chemicals, Inc., USA
SO Eur. Pat. Appl., 38 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 111928	A1	19840627	EP 1983-112839	19831220
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4446320	A	19840501	US 1982-451295	19821220
PRAI	US 1982-451295	A	19821220		
	US 1982-451305	A	19821220		
	US 1982-381233	A2	19820524		

LOOK AT. →

L9 ANSWER 21 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
AN 1983:422494 CAPLUS
DN 99:22494
TI Catalysis of condensation reactions
IN Wells, James Edward; Eskinazi, Victoria
PA Air Products and Chemicals, Inc., USA
SO Eur. Pat. Appl., 36 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 6

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 69322	A2	19830112	EP 1982-105731	19820628
	EP 69322	A3	19841128		
	EP 69322	B1	19880824		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	US 4405784	A	19830920	US 1981-278814	19810629
	US 4501889	A	19850226	US 1982-381233	19820524
	US 4521600	A	19850604	US 1982-381232	19820524

	AU 8284656	A1	19830106	AU 1982-84656	19820608
	CA 1198428	A1	19851224	CA 1982-405618	19820621
	BR 8203774	A	19830621	BR 1982-3774	19820628
	ES 513523	A1	19831216	ES 1982-513523	19820628
	AT 36654	E	19880915	AT 1982-105731	19820628
	JP 58017839	A2	19830202	JP 1982-112434	19820629
	JP 01013701	B4	19890307		
	CA 1198429	A2	19851224	CA 1983-444540	19831230
PRAI	US 1981-278814	A	19810629		
	US 1982-381232	A	19820524		
	US 1982-381233	A	19820524		
	CA 1982-405618	A3	19820621		
	EP 1982-105731	A	19820628		

=> D ABS 9
L11 HAS NO ANSWERS

L3	261	SEA FILE=CAPLUS ABB=ON PLU=ON 280-57-9/PREP
L4	4	SEA FILE=CAPLUS ABB=ON PLU=ON L3 AND ADSORBENT
L5	257	SEA FILE=CAPLUS ABB=ON PLU=ON L3 NOT L4
L9	21	SEA FILE=CAPLUS ABB=ON PLU=ON L5 AND (METHANOL OR ETHANOL OR PROPANOL OR BUTANOL)
L11	0	SEA FILE=CAPLUS ABB=ON PLU=ON L9 AND QUENCH

=> D L9 ABS 9

L9 ANSWER 9 OF 21 CAPLUS COPYRIGHT 2005 ACS on STN
GI For diagram(s), see printed CA Issue.
AB α-ω-Diamines [H2N(CH2)nNH2, n = 2-7] undergo surprisingly different reactions in the presence of steam, using a H+-pentasil zeolite (Si/Al = 25-19,000) at 350°, a LHSV .apprx.0.8 h-1, atmospheric pressure in a plug flow reactor. Ethylenediamine and its linear and cyclic oligomers result in piperazine and 1,4-diabicyclo(2.2.2)octane (TEDA), the latter in excellent efficiencies (.apprx.90%) and good rates (.apprx.30% conversion/pass) probably via the reaction of piperazine with protonated vinylamine. Minor byproducts originate from a reductive cleavage reaction and alkylpyrazine formation. 1,3-Propanediamine results in .apprx.40% alkylpyridines, a small amount of allylamine and reductive cleavage products on balance. 1,4-Butanediamine was completely unreactive even at 400°. The 1,5-, 1,6-, and 1,7-diamines form almost exclusively the cyclic secondary amines I (n = 5, 6, 7). This diverse chem has been rationalized based on differing reaction intermediates and transition states. The reductive cleavage reaction (yielding CH3NH2, CH3CH2NH2, etc.) takes place only with n = 2 and 3 diamines. The pyrazines (n = 2) and pyridines (n = 3) generated are probably due to amine dehydrogenation, imine hydrolysis, followed by aldol and related condensation and dehydration/dehydrogenations of the intermediates to yield the aromatic products. The inactivity of the n = 4 may be due to high strain in the intramol. cyclization step which exists to lesser degree in 1,5-, 1,6-, and 1,7-diamines, as judged by their widely differing activities.

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LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	83.69	92.61
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-3.65	-3.65

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* * * * * * * * * * * * * * * STN Columbus * * * * * * * * * * * * * * * *

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=> FILE CAPLUS

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	0.21	0.21

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FILE LAST UPDATED: 14 Sep 2005 (20050914/ED)

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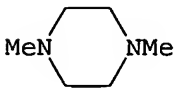
=> S 1988:454268/AN
L1 1 1988:454268/AN

=> D IBIB ABS

L1 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER:	**1988:454268** CAPLUS
DOCUMENT NUMBER:	109:54268
TITLE:	Selective catalytic syntheses of mixed alkyl amines
AUTHOR(S):	Labadie, J. W.; Dixon, D. D.
CORPORATE SOURCE:	Corp. Sci. Cent., Air Prod. Chem., Inc., Allentown, PA, 18105, USA
SOURCE:	Journal of Molecular Catalysis (1987), 42(3), 367-78 CODEN: JMCADS; ISSN: 0304-5102
DOCUMENT TYPE:	Journal
LANGUAGE:	English
OTHER SOURCE(S):	CASREACT 109:54268

GI



I

AB Selective synthesis of mixed alkyl amines was achieved by amine-alc. condensation over SrHPO4. Condensation occurred without product equilibration over the catalyst, and consequently amine products could be

prepared selectively by appropriate control of the reaction conditions. New synthetic routes to several polyfunctional mixed amines were developed from readily available starting materials. Tertiary methylamines reacted with alcs. when a cyclic product could be formed. Thus, treatment of (HOCH2CH2)2NMe with Me2NH in the presence of SrHPO4 at 260° and 780 psig gave 45% HOCH2CH2NMeCH2CH2NMe2 and 13% N,N'-dimethylpiperazine (I). Initial results favor a mechanism in which a phosphate ester is formed on the catalyst surface and then undergoes a nucleophilic displacement reaction with the reactant amine.

=> LOGOFF
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LOGOFF? (Y)/N/HOLD:Y

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	4.99	5.20

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-0.73	-0.73

STN INTERNATIONAL LOGOFF AT 13:36:12 ON 15 SEP 2005

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                   STN AnaVist, now available
 NEWS  4  AUG 11   Derwent World Patents Index(R) web-based training during
                   August
 NEWS  5  AUG 11   STN AnaVist workshops to be held in North America
 NEWS  6  AUG 30   CA/CAplus -Increased access to 19th century research documents
 NEWS  7  AUG 30   CASREACT - Enhanced with displayable reaction conditions
 NEWS  8  SEP 09   ACD predicted properties enhanced in REGISTRY/ZREGISTRY

 NEWS EXPRESS  JUNE 13 CURRENT WINDOWS VERSION IS V8.0, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 13 JUNE 2005

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=> file caplus
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                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     0.21       0.21

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FILE LAST UPDATED: 14 Sep 2005  (20050914/ED)

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THIS PART OF THE SEARCH BEARS IN MIND THAT BY "MONOHYDRIC" IN CL. 1, THE MEAN "POLYHYDRIC" THE SPEC. BEARS THIS OUT; IT IS AN ERROR IN CL. DRAFTING.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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=> s 280-57-9/prep
          5221 280-57-9
       3357108 PREP/RL
L1          261 280-57-9/PREP
                (280-57-9 (L) PREP/RL)

=> s l1 and polyhydric
         28302 POLYHYDRIC
             2 POLYHYDRICS
         28302 POLYHYDRIC
                (POLYHYDRIC OR POLYHYDRICS)
L2            1 L1 AND POLYHYDRIC

=> d

L2   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2002:286003  CAPLUS
DN   136:310883
TI   Manufacture of foamed polyurethane rolls without entrapping air and
     electrophotographic apparatus assembled with the same
IN   Fukuda, Hiroya; Satoyoshi, Minoru; Takahashi, Wataru
PA   Bridgestone Corp., Japan
SO   Jpn. Kokai Tokkyo Koho, 9 pp.
     CODEN: JKXXAF
DT   Patent
LA   Japanese
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
PI   JP 2002113727         A2    20020416    JP 2000-307403          20001006
PRAI JP 2000-307403                20001006


=> d abs

L2   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
AB   A roller having a shaft surrounded with a foamed polyurethane, especially
useful
     for a toner supply roller, is manufactured by blowing a raw material in a
     column, the volume of the blowing space in the column being increased
     continuously in accordance with the blowing/expansion velocity, followed
     by curing the obtained foam.  Thus, an expandable compound comprised (a) a
     70:30 trifunctional polyether polyol/ styrene-grafted polymer polyol
     mixture, triethylenediamine, N-methylmorphorin, water, and a silicone foam
     stabilizer and (b) a 50:50 TDI 80/polymeric MDI mixture, blended at NCO
     index 105.  A SUS stainless steel column with a movable top and a shaft
     disposed in the center of the column was employed.  The compound was
     injected into the space surrounded with the column wall and the movable
     top, then the upper cap was mounted thereon.  The blowing pressure pushed
     the top downwardly, and after .apprx.90 s, the column was filled with a
     foamed body which was then cured at 90° and demolded to give a
     roller free from void and having uniform cell size and d.


=> s l1 and glycol
         336099 GLYCOL
          44125 GLYCOLS
         351168 GLYCOL
                (GLYCOL OR GLYCOLS)
L3           42 L1 AND GLYCOL
```

```
=> s l3 and quench
         18301 QUENCH
          2524 QUENCHES
         20418 QUENCH
                 (QUENCH OR QUENCHES)
L4           0 L3 AND QUENCH

=> s l3 and (vapor or vapour)
        491868 VAPOR
         69992 VAPORS
        533288 VAPOR
                 (VAPOR OR VAPORS)
          2084 VAPOUR
           175 VAPOURS
          2250 VAPOUR
                 (VAPOUR OR VAPOURS)
L5           0 L3 AND (VAPOR OR VAPOUR)

=> s l3 and gaseous
        163165 GASEOUS
L6           1 L3 AND GASEOUS

=> d

L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
AN   2004:625844  CAPLUS
DN   141:157137
TI   Decolorization and color stabilization of TEDA-solutions
IN   Ciprian, Juergen; Frauenkron, Matthias; Maurer, Stephan; Melder,
     Johann-Peter
PA   BASF Aktiengesellschaft, Germany
SO   Eur. Pat. Appl., 12 pp.
     CODEN: EPXXDW
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   EP 1443048           A1    20040804    EP 2004-1777            20040128
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
     DE 10303696           A1    20040812    DE 2003-10303696        20030130
     US 2004186291         A1    20040923    US 2004-765988          20040129
     JP 2004231659         A2    20040819    JP 2004-24570           20040130
PRAI DE 2003-10303696      A     20030130


=> d abs

L6   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2005 ACS on STN
AB   A procedure for preparation of triethylenediamine (TEDA) solns. containing a
     solvent from the group, polyhydroxy alcs. or ethers, is characterized by:
     (a) introduction of gaseous EDTA into the solvent; (b) treatment
     of the solution with one or more suitable adsorbents.  The procedure is
     further characterized by: (a) the absorbent exists as compact, suspensions
     or vortex beds; (b) the process is continuous, discontinuous or
     semicontinuous.  Thus, TEDA was dissolved in dipropylene glycol
     the solution was then treated with a combination of active charcoal powder
     (PAK 1220) and basic anion exchanger (Ambersep 900, OH- form) to give an
     APHA color number of 32.5 after 24 h.
```

```
=> s l3 and polyhydric alcohols
         28302 POLYHYDRIC
             2 POLYHYDRICS
         28302 POLYHYDRIC
                 (POLYHYDRIC OR POLYHYDRICS)
        156939 ALCOHOLS
        185569 ALCS
        256502 ALCOHOLS
                 (ALCOHOLS OR ALCS)
          8549 POLYHYDRIC ALCOHOLS
                 (POLYHYDRIC(W)ALCOHOLS)
L7           0 L3 AND POLYHYDRIC ALCOHOLS

=> s l3 and polyhydric alcohol
         28302 POLYHYDRIC
             2 POLYHYDRICS
         28302 POLYHYDRIC
                 (POLYHYDRIC OR POLYHYDRICS)
        228272 ALCOHOL
        156939 ALCOHOLS
        356312 ALCOHOL
                 (ALCOHOL OR ALCOHOLS)
        558494 ALC
        185569 ALCS
        653225 ALC
                 (ALC OR ALCS)
        781896 ALCOHOL
                 (ALCOHOL OR ALC)
         14011 POLYHYDRIC ALCOHOL
                 (POLYHYDRIC(W)ALCOHOL)
L8           0 L3 AND POLYHYDRIC ALCOHOL

=> logoff
ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF
LOGOFF? (Y)/N/HOLD:y
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
FULL ESTIMATED COST                              30.68      30.89

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)    SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CA SUBSCRIBER PRICE                              -1.46      -1.46

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